

I. GENERAL

PROJECT DESCRIPTION

This project involves the reconstruction of an existing signal to provide for additional through and right turn lanes along the I-95 exit ramp (Capital Beltway), a new median along US Route 1, and the addition of IKEA Way to the north side of the intersection. The existing signal poles located at all four corners of the intersection will be removed and new signal poles with mast arms and new pedestal pole will be installed at all four corners of the intersection. Detection cameras will be installed for all of the "at signal" lanes for IKEA Way and the I-95 exit ramp. Micro-probes will be used for the advanced detection along US Route 1, IKEA Way, and the I-95 exit ramp.

II. INTERSECTION OPERATION

- The intersection is to operate in a NEMA 8-phase, semi-actuated mode, with the East-West approaches running separately.

III. CONTROLLER REQUIREMENT

- Install a fully-actuated, eight phase controller with four (4) - four channel, time-delay-output loop detector amplifiers, and associated harnesses housed in a NEMA size "6" base mounted cabinet.

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

MR. CHARLIE WATKINS  
DISTRICT ENGINEER  
(301) 513-7311

MR. DENNIS McMAHON  
ADE CONSTRUCTION  
(301) 513-7345

MR. RICHARD DAFF  
DIVISION CHIEF, TOD  
(410) 787-7630

MR. MAJID SHAKIB  
ADE TRAFFIC  
(301) 513-7358

MR. BARRY KING  
CHIEF, TEDD  
(410) 787-4011

MR. EDWARD RODENHIZER  
CHIEF OF SIGNAL OPERATIONS  
(410) 787-7652

EQUIPMENT LIST B

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY CONTRACTOR.

QUANTITY DESCRIPTION

60 LF FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT (SLOTTED)

1 EACH FURNISH AND INSTALL ELECTRICAL HANDHOLE

3 EA FURNISH AND INSTALL MICRO-LOOP PROBE SET WITH 500 FT. LEAD-IN

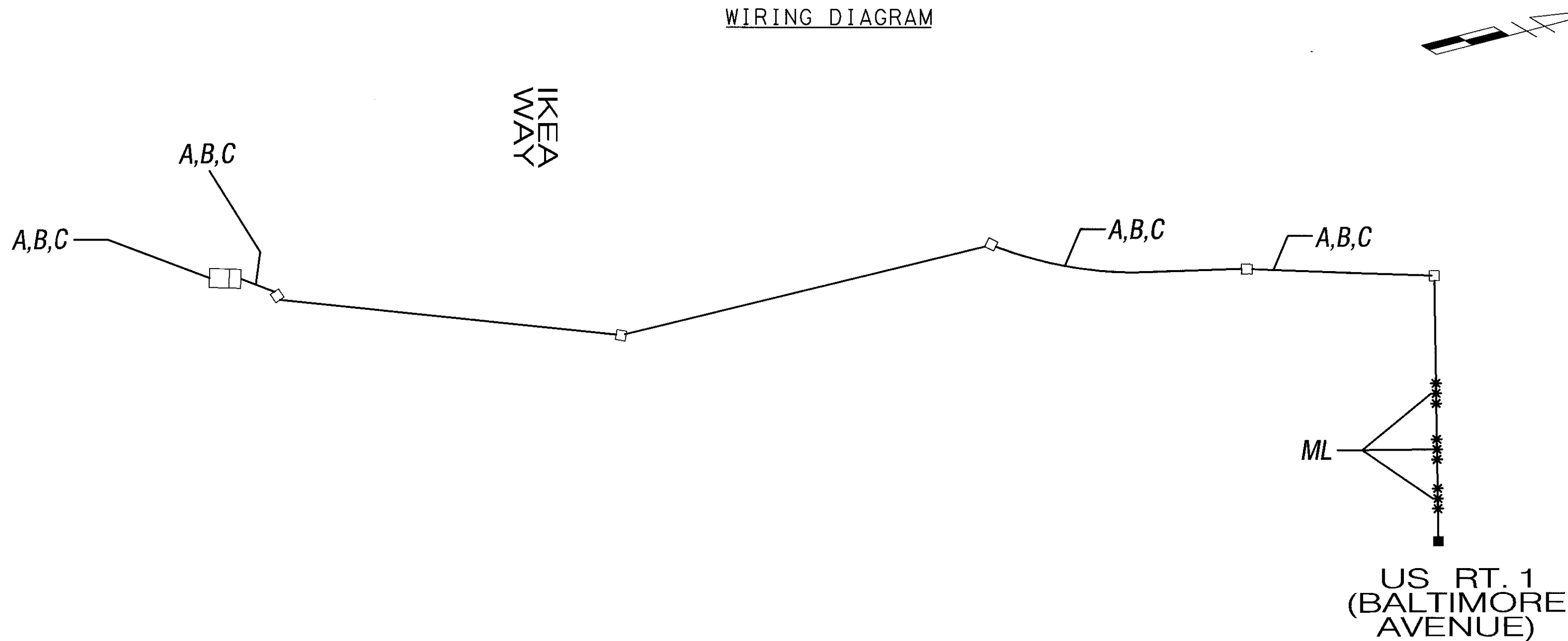
780 LF FURNISH AND INSTALL 12 IN. WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE

210 LF FURNISH AND INSTALL 24 IN. WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE

PHASING  
SEQUENCE  
CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
PHASE 02 & 06	G	G	G	G	-R	-R	-R	R	R	R	R	R	WK	WK	DW	DW	←
PED CLEAR	G	G	G	G	-R	-R	-R	R	R	R	R	R	FL/DW	FL/DW	DW	DW	→
PHASE 02 & 06 CHANGE	Y	Y	Y	Y	-R	-R	-R	R	R	R	R	R	DW	DW	DW	DW	○---○
PHASE 03	R	R	R	R	-R	-R	-R	R	R	G	G	G	DW	DW	DW	DW	↶
PHASE 03 CHANGE	R	R	R	R	-R	-R	-R	R	R	Y	Y	Y	DW	DW	DW	DW	↷
PHASE 04	R	R	R	R	-G	-G	-G	R	R	R	R	G	DW	DW	DW	DW	↶
PHASE 04 CHANGE	R	R	R	R	-Y	-Y	-Y	R	R	R	R	Y	DW	DW	DW	DW	↷
PHASE 04 ALT	R	R	R	R	-G	-G	-G	R	R	R	R	G	DW	DW	WK	WK	○
PED CLEAR	R	R	R	R	-G	-G	-G	R	R	R	R	G	DW	DW	FL/DW	FL/DW	○
PHASE 04 ALT CHANGE	R	R	R	R	-Y	-Y	-Y	R	R	R	R	Y	DW	DW	DW	DW	↶
PRE-EMPTY PHASE	R	R	R	R	-R	-R	-R	G	G	R	R	R	DW	DW	DW	DW	↷
PRE-EMPTY PHASE CHANGE	R	R	R	R	-R	-R	-R	Y	Y	R	R	R	DW	DW	DW	DW	↶
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/-R	FL/-R	FL/-R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	+

WIRING DIAGRAM



A,B,C  
ML

MICRO-LOOP PROBE LEAD-IN  
MICRO-LOOP PROBE SET



ENGINEERING-PLANNING-EARTH SCIENCES-SURVEYING  
**GREENHORNE & O'MARA, INC.**  
810 GLENDALES COURT, SUITE 106, BALTIMORE, MARYLAND 21286  
(410) 583-6700  
ANNAPOLIS, MD - BALTIMORE, MD - ATLANTA, GA - TAMPA, FL - FARMACIA, VA - WEST PALM BEACH, FL  
ROCKVILLE, MD - RALEIGH, NC - FREDERICKSBURG, VA - MECHANICSBURG, PA - ST. PETERSBURG, FL

REVISIONS	
© MAST ARMS RELOCATED DUE TO GEOMETRIC IMPROVEMENTS	7/02

		<b>MARYLAND DOT - STATE HIGHWAY ADMINISTRATION</b>	
		<i>Office of Traffic &amp; Safety</i>	
		<b>TRAFFIC ENGINEERING DESIGN DIVISION</b>	
		<b>Traffic Signal Plan (MOT Phase Ultimate)</b>	
		<b>US RT. 1 (BALTIMORE AVENUE) &amp; I-95 RAMPS/IKEA WAY</b>	
DRAWN BY:	00P	F.A.P. NO.	TS NO.
CHECKED BY:	RWH	S.H.A. NO.	TS-3130C
SCALE:	1" = 20'	COUNTY:	PRINCE GEORGE'S
DATE:	FEBRUARY 11, 1991	LOG MILE:	16.000/06.53
		T.I.M.S. NO.	6 OF 22